

Analogue Stereo Audio Distributor - 1x8 Dual

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Revision history

Current revision of this document is the uppermost in the table below.

Revision	Replaces	Date	Change description
5	4	2007-10-19	New front page and removed old logo.
4	3	2007-03-27	Added Materials Declaration and EFUP; updated EC Declaration of Conformity.
3	2	31/01/05	Corrected <i>Max. input level</i> specification.
2	1	29/03/04	Updated warranty descriptions.
1	0	05/11/02	Added information regarding unbalanced connections.
0	-	10/10/00	Initial Revision

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1 Product overview

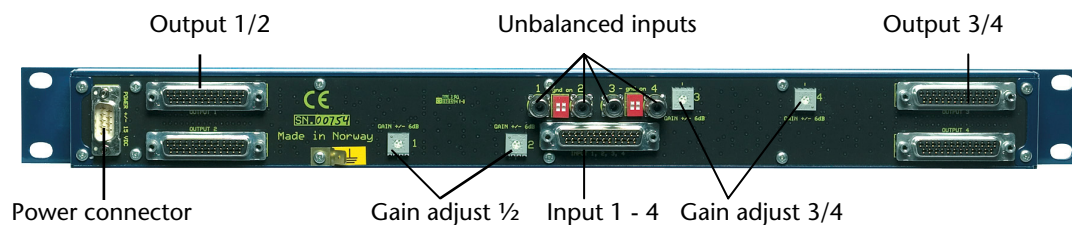
The A0108DS is a balanced 1 to 8 dual stereo audio distribution amplifier in a single rack space ultra low profile enclosure. High performance amplifier circuits in SMD technology give maximum signal quality. Extremely low distortion and SNR figures make this amplifier the first choice for demanding distribution tasks. The A0108DS offers gain adjustment on all inputs. Inputs are provided both balanced and unbalanced

2 Specifications

2.1 Video specifications

Frequency response:	20Hz-100kHz \pm 0.1dB.
Crosstalk:	> -100dB.
THD+N:	< 0.003%.
SNR:	> 90dB ref. To 0dB 20Hz-20kHz.
Number of inputs:	4 mono (2 stereo).
Input impedance:	> 10 kohms.
Max. input level:	+23 dBu.
Number of outputs:	4x8 mono (2x8 stereo).
Output impedance:	< 66 ohms.
Gain adjustment:	\pm 6dB.
Connector:	DB25 female.
Unbalanced inputs:	4 mono.
Input impedance:	47 kohms.
AC Power:	External power supplies 100 - 260 VAC
DC Power:	\pm 15V, connector DB9 male
Max power consumption:	< 9W
Dimensions:	483 x 44 x 45 mm (19", 1RU)

2.2 Rear view



2.3 Power connection

Do not connect mains to the desktop power supply before connecting the power supply to the router.

Connect the DB9 female connector from the desktop power supply to the main unit. Tighten the screws to assure a proper contact. To connect mains to the desktop power supply you need a mains cord with IEC 320 connector. A0108DS is normally delivered with the desktop power model **AC \pm 15V / 10W**. Upon customer request, A0108DS can also be delivered with **DC \pm 15V / 30W**, which may be fed by a 36 - 72 VDC mains power source. A Frame mounted power supply solution is also available. Please refer to the latest VikinX Product Catalogue for power supply types, or call the Network Electronics ASA for this information.

A0108DS require \pm 15V DC with a minimum current of 300 mA. The following pin-out is used on the DB9 male power connector:

Pin #1	0V
Pin #4	+15V
Pin #8	-15V

3 Configuration

3.1 Gain adjustment

The A0108DS offers gain adjustment for each input. Signal level can be adjusted from -6dB to $+6\text{dB}$.

4 Connections

4.1 Connecting signal cables to the A0108DS

4.1.1 Input signals

Below you will find the pin-out for the DB25 audio contact marked with INPUT 1-4. The same standard is used by Tascam and Fostex.

Input #	DB25 Pin #		
	Hot (+)	Cold (-)	GND
1	24	12	25
2	10	23	11
3	21	9	22
4	7	20	8

All audio contacts used on the routers are female type.

4.1.2 Output signals

Below you will find the pin-out for the DB25 audio contact marked with OUT1 – OUT4. The same standard is used by Tascam and Fostex.

Output #	DB25 Pin #		
	Hot (+)	Cold (-)	GND
1	24	12	25
2	10	23	11
3	21	9	22
4	7	20	8
5	18	6	19
6	4	17	5
7	15	3	16
8	1	14	2

All audio contacts used on the routers are female type.

4.1.3 Unbalanced signals on A0108DS

If you want to use the A0108DS with unbalanced audio signals you connect these signals according to the following table:

VikinX device	Unbalanced signal connection
'+'	Audio
'-'	Not connected
'GND'	Shield

General environmental requirements for Network Electronics equipment

1. The equipment will meet the guaranteed performance specification under the following environmental conditions:
 - Operating room temperature range: 0°C to 45°C
 - Operating relative humidity range: < 95% (non-condensing)

2. The equipment will operate without damage under the following environmental conditions:
 - Temperature range: -10°C to 55°C
 - Relative humidity range: < 95% (non-condensing)

Product Warranty

The warranty terms and conditions for the A0108DS follow the General Sales Conditions by Network Electronics ASA. These conditions are available on the company web site of Network Electronics ASA:

www.network-electronics.com

Materials Declaration and EFUP

Materials declaration

For product sold into China after 1st March 2007, we comply with the “Administrative Measure on the Control of Pollution by Electronic Information Products”. In the first stage of this legislation, content of six hazardous materials has to be declared. The table below shows the required information.

組成名稱 Part Name	Toxic or hazardous substances and elements					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr(VI))	多溴联苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
A0108DS	X	O	O	O	O	O
DP AC ±15V, 10W	O	O	O	O	O	O
O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006. X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.						

Environmentally Friendly Use Period (EFUP)

EFUP is the time the product can be used in normal service life without leaking the hazardous materials. We expect the normal use environment to be in an equipment room at controlled temperature range (0°C - 40°C) with moderate humidity (<90%, non-condensing) and clean air, not subject to vibration or shock.

Where a product contains potentially hazardous materials, this is indicated on the product by the appropriate symbol containing the EFUP. The hazardous material content is limited to lead (Pb) in some solders. This is extremely stable in normal use and the EFUP is taken as 50 years, by comparison with the EFUP given for Digital Exchange/Switching Platform in equipment in Appendix A of “General Rule of Environment-Friendly Use Period of Electronic Information Products”. This is indicated by the product marking:



It is assumed that while the product is in normal use, any batteries associated with real-time clocks or battery-backed RAM will be replaced at the regular intervals.

The EFUP relates only to the environmental impact of the product in normal use, it does not imply that the product will continue to be supported for 50 years.

Recycling information


Network Electronics ASA provides assistance to customers and recyclers through our web site <http://www.network-electronics.com>. Please contact Network Electronics ASA's Customer Support for assistance with recycling if this site does not show the information you require.

Where it is not possible to return the product to Network Electronics ASA or its agents for recycling, the following general information may be of assistance:

- Before attempting disassembly, ensure the product is completely disconnected from power and signal connections.
- All major parts are marked or labelled to show their material content.
- Depending on the date of manufacture, this product may contain lead in solder.
- Some circuit boards may contain battery-backed memory devices.

EC Declaration of Conformity

network

MANUFACTURER	Network Electronics ASA P.B. 1020, N-3204 SANDEFJORD, Norway	
AUTHORISED REPRESENTATIVE (Established within the EEA)	Not applicable	
MODEL NUMBER(S)	A0108DS	
DESCRIPTION	Analogue Stereo Audio Distributor - 1x8 Dual	
DIRECTIVES this equipment complies with	LVD 73/23/EEC EMC 89/336/EEC	
HARMONISED STANDARDS applied in order to verify compliance with Directive(s)	EN 55103-1:1996 EN 55103-2:1996 EN 60950-1:2006	
TEST REPORTS ISSUED BY	Notified/Competent Body	Report no:
	Nemko	199922157014
TECHNICAL CONSTRUCTION FILE NO	Not applicable	
YEAR WHICH THE CE-MARK WAS AFFIXED	1999	
TEST AUTHORIZED SIGNATORY		
MANUFACTURER	AUTHORISED REPRESENTATIVE (Established within EEA)	Date of Issue
		2007-03-27
		Place of Issue
		Sandefjord, Norway
 NETWORK ELECTRONICS ASA O.nr. 976 584 201 MVA	Not applicable	
Name	Nils B. Sannes	
Position	Quality Manager (authorised signature)	